

## IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Patent Application of:

Thomas FREY et al.

Application No.: Unassigned

Group Art Unit: Unassigned

Filed: January 27, 2006

Examiner: Unassigned

For: METHOD FOR PRE-FILTERING TRAINING SEQUENCES IN A  
RADIOCOMMUNICATION SYSTEM**INFORMATION DISCLOSURE STATEMENT**Commissioner for Patents  
PO Box 1450  
Alexandria, VA 22313-1450

Sir:

In accordance with the duty of disclosure provisions of 37 CFR § 1.56, there is hereby provided certain information which the Examiner may consider material to the examination of the subject U.S. patent application. It is requested that the Examiner make this information of record if it is deemed material to the examination of the subject application.

## 1. Enclosures accompanying this Information Disclosure Statement are:

- 1a. ☒ Form PTO-1449.
- 1b. ☒ Copy(ies) of IDS citation(s), except for U.S. Patents and U.S. Patent Application publications.
- 1c. ☐ English language copy of a communication(s) from a foreign Patent Office or a PCT International Search Report.
- 1d. ☐ English language translation (complete, Abstract or relevant portion(s)) attached to non-English language publications as indicated on the attached Form PTO-1449.
- 1e. ☐ Explanations of Relevancy of References (ATTACHMENT 1(e), hereto) for providing a concise explanation of non-English publications.

2. ☐ In accordance with 37 CFR § 1.98, a concise explanation of what is presently understood to be the relevance of each non-English language publication is

(Check appropriate Items 2a, 2b, 2c and/or 2d)

- 2a. ☐ satisfied for the non-English language publication(s) cited on the enclosed "English language version of the search report or action which indicates the degree of relevance found by the foreign office". (See MPEP § 609, Minimum Requirements for an Information Disclosure Statement, Part A(3): Concise Explanation of Relevance, 8th Ed., Rev. 2)

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- 2b. ☐ set forth in the application.
- 2c. ☐ satisfied for the non-English language publication(s) indicated on the attached PTO-1449 as having an English language translation (complete, Abstract or relevant portion(s)) attached thereto.
- 2d. ☐ enclosed as Attachment 1(e), hereto.
3. No admission is made that the information cited in this Statement is, or is considered to be, material to patentability nor a representation that a search has been made (other than search report(s) from a counterpart foreign application or a PCT International Search Report, if submitted herewith). 37 CFR §§ 1.97(g) and (h).

Respectfully submitted,

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FORM PTO-1449  <b>INFORMATION DISCLOSURE STATEMENT</b> (Use several sheets if necessary)	U.S. DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE		ATTORNEY DOCKET NO.	APPLICATION NO.
			1454.1649	Unassigned
			FIRST NAMED INVENTOR Thomas FREY et al.	
FILING DATE		GROUP ART UNIT		
January 27, 2006		Unassigned		

**U.S. PATENT DOCUMENTS**

*EXAMINER INITIAL		DOCUMENT NO.	DATE	NAME	CLASS	SUB- CLASS	FILING DATE
	AA						
	AB						

**FOREIGN PATENT DOCUMENTS**

		DOCUMENT NO.	DATE	COUNTRY	<u>TRANSLATION</u> YES NO		ABSTRACT
	AC	01/37442	05/25/01	WIPO			
	AD						
	AE						

**OTHER REFERENCES (INCLUDING AUTHOR, TITLE, DATE, PERTINENT PAGES, ETC.)**

			<u>TRANSLATION</u> YES NO	
	AF	Kiessling et al., "Short-term and Long-Term Diagonalization of Correlated MIMO Channels with Adaptive Modulation"		
	AG	Kiessling et al., "Performance Analysis of MIMO Maximum Likelihood Receivers with Channel Correlation, Colored Gaussian Noise, and Linear Prefiltering" IEEE 2003, pages 3026-3030		
	AH	Kiessling et al., "Statistical Prefiltering for MIMO Systems with Linear Receivers in the Presence of Transmit Correlation" IEEE 2003, pages 267-271		
	AI	Kiessling et al., "Statistical Prefiltering for MMSE and ML Receivers with Correlated MIMO Channels"; IEEE 2003, pages 919-924		
	AJ	Zhou et al., "Subspace-based (Semi-) Blind Channel Estimation for Block Precoded Space-Time OFDM"; IEEE 2002, pages 1215-1228		

EXAMINER

DATE CONSIDERED

\*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.